HomePlug AV | Smart Power Saving | 500 Mbps IEEE 1901 | IPTV Support | QoS

Compact HomePlug AV 500 Gigabit Ethernet Adapter

Ideal for Residential users

Enables high-speed Internet applications throughout your home

Simply plug the adapter into any wall power socket, using your home's existing electrical wiring to create or extend a network. Compliant with the IEEE1901 & HomePlug AV standards, which support high speeds of up to 500Mbps, the BiPAC 2075 enables seamless high-definition media streaming, intense online gaming, and jitter-free VoIP calling throughout your home. Another unique feature is supporting superior and noise-immune data transmission over electrical wire. Even at the moment your family turns on or off any other electronic device, you won't experience any interruption to latency-sensitive applications such as multimedia or video being shared with your family in another room.

Using existing wiring to create in-home network

The BiPAC 2075 transmits bandwidth intensive data easily and securely over the existing electrical wiring – without installation effort. It is also ideal for homes or small offices where concrete walls, successive floors in multi-storied buildings could inhibit a wireless signal. Just one touch of the "Sync" button to install the bridge utility and your high-speed network is ready. It's as easy as simply plugging in your networking devices and using the electrical wiring in your home.

Smooth HD streaming and prioritization

With increased speeds of up to 500Mbps and utilizing QoS technology, BiPAC 2075 is ideal for streaming HD video, intense online gaming, and VoIP calling. Quality of Service (QoS) control guarantees the transmission quality by automatically prioritizing data. The BiPAC 2075 automatically recognizes the bandwidth needs of voice and video applications. QoS prioritizes the data to guarantee optimal transmission quality. TV and video images are received and displayed with absolute smoothness. QoS also guarantees the clear, instant reproduction of voice data, even when other applications are running on the network at the same time.

Reduce energy consumption

With the Smart Power Saving feature, the BiPAC 2075 can automatically detect its Ethernet connection. When the Ethernet-based device is powered down or disconnected, the BiPAC 2075 adapter will automatically fall into sleep mode, which reduces power consumption significantly. In full operation mode, the adapter can reduce its power consumption and save money on your electricity bill. Create a "Green" home and enjoy energy efficiency!

- IEEE1901 and HomePlug AV Compliant
- Provides physical layer data rate of up to 500Mbps over existing in-home power lines
- Supports Gigabit Ethernet connection
- Enable data transmission through existing home power grid
- Smart power saving technology for improved power efficiency.
- Quality of Service (QoS) control
- Supports Triple Play applications such as IPTV, VoIP and high-speed Internet access
- Utmost slim and sleek design

BiPAC 2075

Powerline 500 / Homeplug AV Ethernet Adapter
(include 1 x BiPAC 2075)

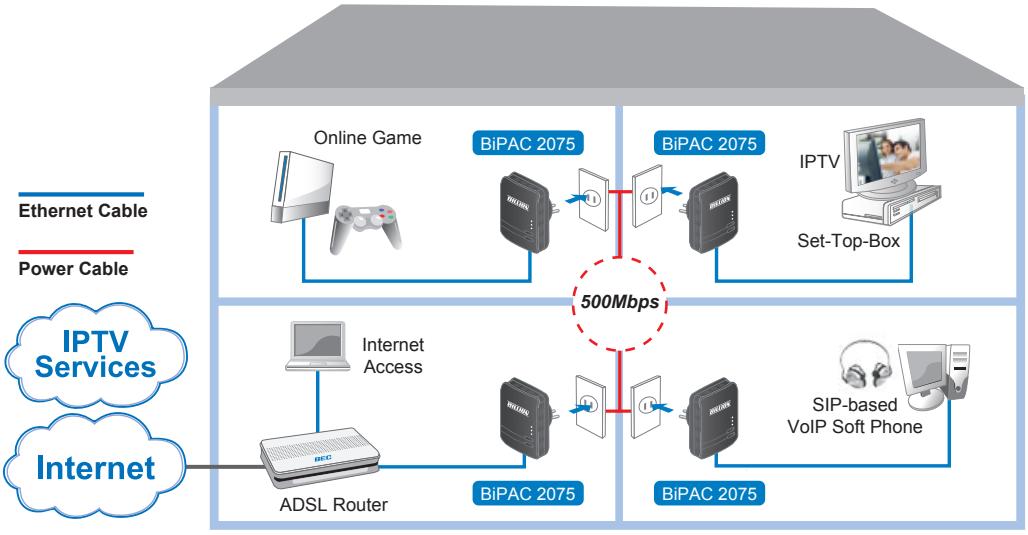
BiPAC P108

Powerline 500 HomePlug AV Ethernet Adapter Starter Kit
(include 2 x BiPAC 2075)

HD Media Center

Online Games

Making VoIP Calls



Features & Specifications

Protocols
• TDMA, CSMA / CA

Standards
• Ethernet specifications: IEEE 802.3, IEEE 802.3x, IEEE 802.3u, IEEE 802.3ab Auto MDI / MDIX
• IEEE1901 and HomePlug AV compliant

Transmission Speed
• 500Mbps max.

Modulation
• Supports OFDM
  - 4096 / 1024 / 256 / 64 / 16 / 8 QAM, QPSK, BPSK and ROBO

Frequency Range
• 2MHz ~ 70MHz

Security
• 128-bit AES Link Encryption with key management for secure power line communications
• Encryption:
  - NMK (Network Membership Key) used to authenticate / access
• Rotating NEK (Network Encryption Key)

Quality of Service Control
• Enhancements: contention-free access, four-level priority based contention access, and multi segment bursting
• ToS, CoS and IP Port Number Packet Classifiers
• Supports IGMP managed multicast sessions
• IGMP snooping with multicast to multiple unicast support in CSMA
• QoS classification for quasi-error-free delivery
  - VLAN priority field, ToS Field
• Enhanced IPv4 / IGMPv1-3 snooping support
• Supports IPv6 and MLDv1-2 snooping

Supported Operating Systems
• Windows 98 / 98SE / Me / 2000 / XP / Vista / 7
• Other 10 / 100 / 1000 Base-T Ethernet devices

Device Port
• Ethernet RJ-45

Power Supply Specifications
• Input: 100~240V AC, 50~60Hz
• Protection: OCP, OVP, SCP

Power Saving
(*depends on input power voltage)
• Up to 86% power reduction in standby mode
• Power consumption < 1W in standby mode

Hardware Specifications
Physical Interface
• AC power plug
• RJ-45 Giga Ethernet
• Sync button
• Reset button
• LED display:
  - POWER
  - PLC
  - ETH

Physical Specifications
• Dimensions (W, D, H):
  3.63" x 2.41" x 1.73"
  (93mm x 62mm x 44mm)

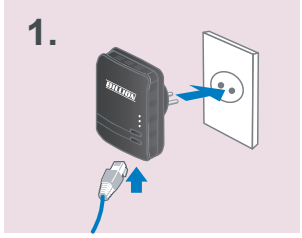
Operating Environment
• Operating temperature: 0 ~ 40 °C
• Storage temperature: -20 ~ 70 °C
• Humidity: 20 ~ 95% non-condensing

Available Product Package
Powerline 500 HomeplugAV Ethernet Adapter
BiPAC 2075
• includes 1 x BiPAC 2075

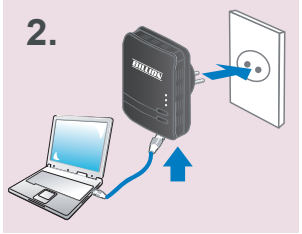
Powerline 500 HomeplugAV Ethernet Adapter Starter Kit
BiPAC P108
• includes 2 x BiPAC 2075

Connecting the BiPAC 2075

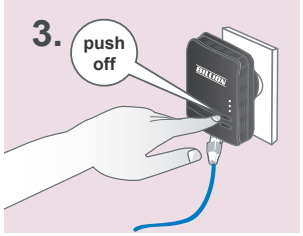
Connect a network cable to the adapter and then plug the BiPAC 2075 into a power socket.



Then connect the BiPAC 2075 to a laptop, modem, router or a set-top-box.



Create a secure network by a simply push off the "Sync" button..



Note: Plug / socket, power cable and input voltage / frequency may vary from country to country.

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